## Claim Amendments Including a complete listing of all claims

- 1. (Currently Amended) A dental capsule providing reduced extrusion forces comprising:
- a body portion having a substantially constant first inside diameter, a body portion inside surface, and a body portion axis;
- a transition portion, adjacent said body portion, having a reducing inside diameter and a transition portion axis, said body portion axis intersecting said transition portion axis forming a non-zero body-transition angle, said transition portion having an upper transition surface intersecting at an angle with the body portion inside surface of said body portion and a lower transition portion segment surface coincident with a straight line formed by the body portion inside surface; and
- a discharge portion having a substantially constant second inside diameter, adjacent said transition portion, and having a discharge portion axis, said transition portion axis intersecting said discharge portion axis forming a <u>non-zero</u> transition-discharge angle,

whereby high viscosity dental material is capable of being extruded with reduced extrusion force and without damaging the high viscosity dental material.

2. (Original) A dental capsule as in claim 1 wherein: the body-transition angle ranges between twenty-five and thirty-five degrees; and

the transition-discharge angle ranges between fifteen and twenty-five degrees.

3. (Original) A dental capsule as in claim 1 wherein: the body-transition angle comprises substantially thirty degrees; and

the transition-discharge angle comprises substantially nineteen and one-half degrees.

- 4. (Original) A dental capsule as in claim 1 further comprising:
  - a flange attached to said body portion.
  - 5. (Canceled)
  - 6. (Canceled)
- 7. (Currently Amended) A dental capsule as in claim 6-wherein: providing reduced extrusion forces comprising:
- a body portion having a substantially constant first inside diameter and a body portion axis;

a transition portion, adjacent said body portion, having a reducing inside diameter and a transition portion axis, said body portion axis intersecting said transition portion axis forming a body-transition angle;

a discharge portion having a substantially constant second inside diameter, adjacent said transition portion, and having a discharge portion axis, said transition portion axis intersecting said discharge portion axis forming a transition-discharge angle; and

a flexible piston, said flexible piston comprises comprising a cylindrical portion having a longitudinal length and a conical portion,

whereby high viscosity dental material is capable of being extruded with reduced extrusion force and without damaging the high viscosity dental material.

- 8. (Original) A dental capsule as in claim 7 further comprising:
- a venting groove extending from said flange into said body portion the longitudinal length of the cylindrical portion of said flexible piston.
  - 9. (Original) A dental capsule as in claim 1 wherein: the dental capsule is made of a flexible material.

- 10. (Original) A dental capsule as in claim 1 further comprising:
- a high viscosity dental material placed within said body portion.
- 11. (Original) A dental capsule as in claim 1 further comprising:
  - a sealing cap place on said discharge portion.
- 12. (Currently Amended) A dental capsule providing reduced extrusion forces for use with a high viscosity dental material comprising:
- a body portion having a substantially constant inside diameter, a body portion inside surface, and a body portion axis;
- a transition portion, adjacent said body portion, having a reducing inside diameter and a transition portion axis, said body portion axis intersecting said transition portion axis forming a body-transition angle, the body-transition angle ranging between twenty-five and thirty-five degrees, said transition portion having an upper transition surface intersecting at an angle with the body portion inside surface of said body portion and a lower transition portion segment surface coincident with a straight line formed by the body portion inside surface; and

a discharge portion, adjacent said transition portion, having a discharge portion axis, said transition portion axis intersecting said discharge portion axis forming a transition-discharge angle, the transition-discharge angle ranging between fifteen and twenty-five degrees,

whereby high viscosity dental material is capable of being extruded with reduced extrusion force and without damaging the high viscosity dental material.

- 13. (Currently Amended) A dental capsule providing reduced extrusion forces for use with a high viscosity dental material as in claim 12 further comprising:
- a body portion having a substantially constant inside diameter and a body portion axis;
- a transition portion, adjacent said body portion, having a reducing inside diameter and a transition portion axis, said body portion axis intersecting said transition portion axis forming a body-transition angle, the body-transition angle ranging between twenty-five and thirty-five degrees;
- a discharge portion, adjacent said transition portion,
  having a discharge portion axis, said transition portion axis
  intersecting said discharge portion axis forming a transition—
  discharge angle, the transition—discharge angle ranging between
  fifteen and twenty—five degrees;

a flexible piston, said flexible piston comprising a cylindrical portion having a longitudinal length and a conical portion; and

a venting groove extending from said flange into said body portion the longitudinal length of the cylindrical portion of said flexible piston.

whereby high viscosity dental material is capable of being extruded with reduced extrusion force and without damaging the high viscosity dental material.

14. (Original) A dental capsule providing reduced extrusion forces for use with a high viscosity dental material as in claim 12 wherein:

the body-transition angle comprises substantially thirty degrees; and

the transition-discharge angle comprises substantially nineteen and one-half degrees.

15. (Original) A dental capsule providing reduced extrusion forces for use with a high viscosity dental material comprising:

a body portion having a substantially constant inside diameter and a body portion axis;

- a high viscosity dental material placed within said body portion;
  - a flange attached to said body portion;
- a transition portion, adjacent said body portion, having a reducing inside diameter and a transition portion axis, said body portion axis intersecting said transition portion axis forming a body-transition angle, the body-transition angle ranging between twenty-five and thirty-five degrees;
- a discharge portion, adjacent said transition portion, having a discharge portion axis, said transition portion axis intersecting said discharge portion axis forming a transition-discharge angle, the transition-discharge angle ranging between fifteen and twenty-five degrees;
- a flexible piston, said flexible piston comprising a cylindrical portion having a longitudinal length and a conical portion;
- a venting groove extending from said flange into said body portion the longitudinal length of the cylindrical portion of said flexible piston; and
  - a cap sealing said discharge portion,
- whereby high viscosity dental material is capable of being extruded with reduced extrusion force and without damaging the high viscosity dental material.

- 16. (Original) A dental capsule for completely extruding a high viscosity dental material comprising:
  - a cylindrical body portion made of a flexible material;
  - a flange adjacent one end of said cylindrical body portion;
- a curved discharge portion made of a flexible material adjacent another end of said cylindrical body portion, said curved discharge portion having a reducing diameter; and
- a piston made of a flexible material comprising a cylindrical portion having a longitudinal length and a conical portion, the conical portion having a smallest diameter that is larger than a smallest diameter of the reducing diameter of said curved discharge portion,

whereby said piston negotiates said curved discharge portion with reduced extrusion force and extrudes substantial all of the high viscosity dental material and said curved discharge portion and said piston are caused to change shape.

- 17. (Original) A dental capsule for completely extruding a high viscosity dental material as in claim 16 further comprising:
- a venting groove extending from said flange into said body portion the longitudinal length of the cylindrical portion of said flexible piston;

- 18. (Original) A dental capsule for completely extruding a high viscosity dental material as in claim 17 further comprising:
- a high viscosity dental material placed within said cylindrical body portion.
- 19. (Previously Presented) A dental capsule providing reduced extrusion forces used in dispensing a high viscosity dental material comprising:
- a body portion having a substantially constant first inside diameter and a body portion axis;
- a transition portion, adjacent said body portion, having a reducing inside diameter and a transition portion axis, said body portion axis intersecting said transition portion axis forming a body-transition angle;
- a discharge portion having a substantially constant second inside diameter, adjacent said transition portion, and having a discharge portion axis, said transition portion axis intersecting said discharge portion axis forming a transition-discharge angle;

wherein the body-transition angle ranges between twenty-five and thirty-five degrees and the transition-discharge angle ranges between fifteen and twenty-five degrees;

a high viscous dental material placed within said body portion; and

a piston having a flexible conical front portion with a small diameter placed within said body portion, wherein the small diameter of said piston is smaller than the diameter of the substantially constant second inside diameter of said discharge portion,

whereby the flexible conical front portion is sufficiently flexible to negotiate around said transition portion and said high viscosity dental material is capable of being extruded with reduced extrusion force and without damaging said high viscosity dental material.